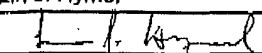
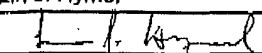
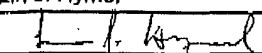


Use in lieu of PTO/SB/17 (08-03)
(Form updated to reflect FY 2004 fees effective 10/1/03)

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The Director is authorized to: (check all that apply) <input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>280</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>640</td><td>2503</td><td>320</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="6" style="padding: 5px;">Other fee (specify):</td></tr> <tr> <td colspan="2" style="padding: 5px;">SUBTOTAL (1) (\$) 0.00</td> <td colspan="2" style="padding: 5px;">SUBTOTAL (3) (\$) 0.00</td> <td colspan="2" style="padding: 5px;"></td> </tr> <tr> <td colspan="2" style="padding: 5px;">2. 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Hyme</td> <td colspan="2" style="padding: 5px;">Registration No (Attorney/Agent) 45,414</td> <td colspan="2" style="padding: 5px;">Telephone (301) 251-8015</td> </tr> <tr> <td colspan="2" style="padding: 5px;">Signature </td> <td colspan="2" style="padding: 5px;"></td> <td colspan="2" style="padding: 5px;">Date October 2, 2003</td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge - late filing fee or oath		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		1251	110	2251	55	Extension for reply within first month		1252	420	2252	210	Extension for reply within second month		1253	950	2253	475	Extension for reply within third month		1254	1,480	2254	740	Extension for reply within fourth month		1255	2,010	2255	1,005	Extension for reply within fifth month		1401	330	2401	165	Notice of Appeal		1402	330	2402	165	Filing a brief in support of an appeal		1403	280	2403	145	Request for oral hearing		1451	1,510	1451	1,510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive - unavoidable		1453	1,330	2453	665	Petition to revive - unintentional		1501	1,330	2501	665	Utility issue fee (or reissue)		1502	480	2502	240	Design issue fee		1503	640	2503	320	Plant issue fee		1460	130	1460	130	Petitions to the Commissioner		1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		1806	180	1806	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property (times number of properties)		1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))		1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))		1801	770	2801	385	Request for Continued Examination (RCE)		1802	900	1802	900	Request for expedited examination of a design application		Other fee (specify):						SUBTOTAL (1) (\$) 0.00		SUBTOTAL (3) (\$) 0.00				2. 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FAX TRANSMISSION

DATE: August 12, 2003
 CLIENT: PF1+1P4
 MESSAGE: Examiner David Karpas
 COMPANY: U.S. Patent & Trademark Office, Group 1000
 FAX: (703) 572-9101
 PHONE: (703) 305-4050
 FROM: Lorna Charles
 PHONE: (301) 251-6012

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MESSAGE Examiner David Romeo
COMPANY: U.S. Patent & Trademark Office, Group 1600
FAX (703) 872-9307
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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003, Patent fees are subject to annual revision.

☐ Applicant claims small entity status See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)		0.00	
Attorney Docket No.		PF141P4	

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number: 08-3425

Deposit Account Name: Human Genome Sciences, Inc.

The Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIF prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIF after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Sheet	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify): _____

*Required by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

0.00

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$)

0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims: _____

Independent Claims: _____

Multiple Dependent: _____

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	84	2201	42	Independent claims in excess of 3	
1203	280	2203	140	Multiple dependent claim, if not paid	
1204	84	2204	42	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$)

0.00

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SUBMITTED BY

Name (Print/Type)	Lin J. Hymel	Registration No. (Attorney/Agent)	45,414	Telephone	(301) 251-6015
Signature		Date	August 12, 2003		

SUBTOTAL (3) (\$)

0.00

VIA FAX AUGUST 12, 2003

Docket No.: PF141P4
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yu et al

Application No.: 09/246,129

Group Art Unit: 1647

Filed: February 8, 1999

Examiner: D. Romeo

For: Tumor Necrosis Factor-Gamma

AMENDMENT WITH RESPONSE UNDER 37 C.F.R. § 1.116 TO PAPER NO. 28

Mailstop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Advisory Action mailed July 22, 2003, and the telephone interview held with the Examiner August 11, 2003, please consider the following amendments and remarks. Submitted concurrently herewith is a Certificate of fax transmission.

Prior to further examination, Applicants respectfully request entry of the following amendments.

- Amendments to the Claims are reflected in the listing of claims that begins on page 2 of this paper.
- Remarks begin on page 6 of this paper.

Listing of claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-41. (Cancelled)

42. (Currently Amended) An isolated polypeptide consisting of an amino acid sequence selected from the group consisting of:

- (a) amino acid residue -27 to amino acid residue +147 as set forth in SEQ ID NO:2;
- (b) amino acid residue -26 to amino acid residue +147 as set forth in SEQ ID NO:2;
- (c) amino acid residue +1 to amino acid residue +147 as set forth in SEQ ID NO:2;
- (d) a full-length polypeptide having the amino acid sequence expressed by the cDNA plasmid contained in ATCC Deposit No. 75927;
- (e) a full-length polypeptide, excluding the N-terminal methionine residue, having the amino acid sequence expressed by the cDNA plasmid contained in ATCC Deposit No. 75927; and
- (f) a polypeptide having the amino acid sequence, excluding the signal sequence, expressed by a recombinant cell comprising encoded by the cDNA plasmid contained in ATCC Deposit No. 75927, wherein said amino acid sequence is encoded by the cDNA plasmid contained in ATCC Deposit No. 75927.

43. (Previously presented) The isolated polypeptide of claim 42 consisting of amino acid residue -27 to amino acid residue +147 as set forth in SEQ ID NO:2.

44. (Previously presented) The isolated polypeptide of claim 42 consisting of amino acid residue -26 to amino acid residue +147 as set forth in SEQ ID NO:2.

45. (Previously presented) The isolated polypeptide of claim 42 consisting of amino acid residue +1 to amino acid residue +147 as set forth in SEQ ID NO:2.

46. (Previously presented) The isolated polypeptide of claim 42 consisting of a full-length polypeptide having the amino acid sequence expressed by the human cDNA contained in ATCC Deposit No. 75927.

47. (Previously presented) The isolated polypeptide of claim 42 consisting of a full-length polypeptide, excluding the N-terminal methionine residue, having the amino acid sequence expressed by the human cDNA contained in ATCC Deposit No. 75927.

48. (Previously presented) The isolated polypeptide of claim 42 consisting of a polypeptide having the amino acid sequence expressed by a recombinant cell comprising the human cDNA contained in ATCC Deposit No. 75927.

49-51. (Cancelled)

52. (Previously presented) The isolated polypeptide of claim 42 wherein said polypeptide is fused to a heterologous polypeptide.

53. (Previously presented) The isolated polypeptide of claim 52 wherein said heterologous polypeptide is the Fc domain of immunoglobulin.

54. (Previously presented) A composition comprising the polypeptide of claim 42 and a pharmaceutically acceptable carrier.

55. (Previously presented) An isolated polypeptide encoded by a nucleic acid molecule consisting of a polynucleotide sequence selected from the group consisting of:

- (a) a polynucleotide sequence consisting of at least 30 contiguous nucleotides of nucleotides 783 to 1304 of SEQ ID NO:1; and
- (b) a polynucleotide sequence consisting of at least 30 contiguous nucleotides of the open reading frame encoded by the cDNA plasmid contained in ATCC Deposit No. 75927.

56. (Previously presented) The isolated polypeptide of claim 55 encoded by a polynucleotide which consists of (a).

57-58. (Cancelled)

59. (Previously presented) The isolated polypeptide of claim 55 encoded by a polynucleotide which consists of (b).

60-61. (Cancelled)

62. (Previously presented) The isolated polypeptide of claim 55 wherein said polypeptide is fused to a heterologous polypeptide.

63. (Previously presented) The isolated polypeptide of claim 62 wherein said heterologous polypeptide is the Fc domain of immunoglobulin.

64. (Previously presented) A composition comprising the polypeptide of claim 55 and a pharmaceutically acceptable carrier.

65. (Previously presented) An isolated polypeptide consisting of an amino acid sequence selected from the group consisting of:

- (a) an amino acid sequence consisting of at least 30 contiguous amino acid residues of SEQ ID NO:2; and
- (b) an amino acid sequence consisting of at least 30 contiguous amino acid residues encoded by the cDNA plasmid contained in ATCC Deposit No. 75927.

66. (Previously presented) The isolated polypeptide of claim 65 which consists of (a).

67-68. (Cancelled)

69. (Previously presented) The isolated polypeptide of claim 65 which consists of (b).

70-71. (Cancelled)

72. (Previously presented) The isolated polypeptide of claim 65 wherein said polypeptide is fused to a heterologous polypeptide.

73. (Previously presented) The isolated polypeptide of claim 72 wherein said heterologous polypeptide is the Fc domain of immunoglobulin.

74. (Previously presented) A composition comprising the polypeptide of claim 65 and a pharmaceutically acceptable carrier.

75-94. (Cancelled)